

Wind Energ. Sci. Discuss., author comment AC1
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Reply on RC1

Henrik M. Bette et al.

Author comment on "Non-stationarity in correlation matrices for wind turbine SCADA-data and possible implications for failure detection" by Henrik M. Bette et al., Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2021-107-AC1>, 2022

We are very grateful for the concise summary and the referees' valuable comment.

We recognize that the point brought up by the referee can lead to misunderstandings. Our method cannot be used directly for failure analysis. It allows the automated distinction between different operational states without prior knowledge about the control mechanisms of the turbine. We are convinced that this distinction will aid other failure detection methods, especially those directly dependent on the correlation structure, by separating the space of what is normal into three smaller subspaces, from which deviations could be detected. This is, however, just an implication and not shown in the current paper.